

## Natural Selection Webquest

Name \_\_\_\_\_ Date \_\_\_\_\_

*Go to each of these websites. Once there, read the material to discover information about Natural Selection.*

Site 1: [http://www.biology-online.org/2/10\\_natural\\_selection.htm](http://www.biology-online.org/2/10_natural_selection.htm)

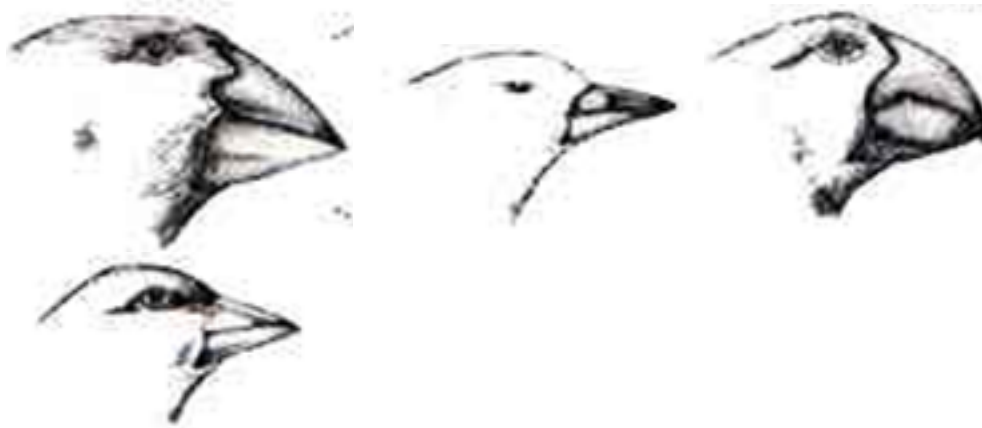
1. Who was Charles Darwin? What is he known for?

2. What does the phrase "survival of the fittest" mean?

Site 2: [http://www.biology-online.org/2/11\\_natural\\_selection.htm](http://www.biology-online.org/2/11_natural_selection.htm)

3. Which part of the finch has changed over time?

4. For each of these diagrams, write what type of food the beak shape is best suited for.



a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_ d. \_\_\_\_\_

Site 3: <http://www.experiment-resources.com/darwins-finches.html>

*Read the first two sections "Darwin's Finches" and "The Galapagos Islands"*

5. Did Darwin first believe that each finch he found was a different species? Was he right or wrong?

6. How did organisms arrive at the Galapagos Islands?

Site 4: [http://www.biology-online.org/2/12\\_selective\\_breeding.htm](http://www.biology-online.org/2/12_selective_breeding.htm)

7. Why is selective breeding useful to farmers?

8. What does it mean to selectively breed an organism?

Site

5: [http://www.alleghany.k12.va.us/animal%20adaptation%20webpage/animal\\_mimicry.htm](http://www.alleghany.k12.va.us/animal%20adaptation%20webpage/animal_mimicry.htm)

9. What is mimicry? How does mimicry benefit an organism?

Site 6: <http://ngm.nationalgeographic.com/2009/08/mimicry/mimicry-interactive>

*Look at the images in the slideshow. Click on the organisms that are hiding in plain sight.*

10. Give three examples of mimicry.

Site 7:

<http://www.globalchange.umich.edu/globalchange1/current/lectures/selection/selection.html>

11. Does natural selection act on individuals or does it act on something else? Explain this.

12. What are the 4 components of natural selection?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

Site 8 <http://www.agiweb.org/news/evolution/>

Click on the Nature of Species on the left hand side bar. Read the information and answer the questions.

1. What is a species?
2. What makes one species different from another?

Click on Examples of Evolution on the left hand side bar. Read the information and answer the questions.

1. Briefly explain the evolution of Mammals.
2. Briefly explain the evolution of Whales

Site 9: <http://www.talkorigins.org/faqs/faq-intro-to-biology.html>

Scroll down to common misconceptions. Read the section and answer the questions.

1. Why are humans taller than they used to be?
2. If there is a morphological change in a population has evolution occurred?
3. Explain why the author does not consider evolution to be progress.

- G) Use a general internet search ([Google](#) or [Bing](#)) to find the difference in "macroevolution" and "microevolution"

Site 10: Natural Selection Game:

Read the directions for the interactive website before playing. (you may play more than once if you wish and there is time)

<http://www.nhm.ac.uk/nature-online/evolution/what-is-evolution/natural-selection-game/the-evolution-experience.html>

14. How did you feel as you were playing? What was your outcome?